



OBVIOUSLY PROUD of the Grand Championship won by one of their meat division entries in the NEPCO Exposition's Egg-to-Chick contest, William H. Wilson, left, and Lowell Blass display their prize winning pen of chicks for Hubbard Hatcheries, Lancaster. Wilson, sales manager for the firm, said, "We expected to end pretty high, and this is high enough." LF PHOTO

Multiple-Tiered Air Ducts Best for Mow Hay Drying

Air ducts in multiple tiers, floated on the hay, constitute the most effective improvement yet devised by W. L. Kjelgaard in barn hay drying systems. These ducts assure good air distribution — essential if hay is to be barn cured without risk of spoilage — affirms Kjelgaard, Engineer at the Agricultural Experiment station, University Park.

Forced air, delivered by an electrically driven fan, will pass through more mowed hay to the sides of a duct than over it. A depth of 8 to 10 feet over a duct is a full load, he has found, but many farmers wish to fill their mows to heights of 20 or 25 feet. In such cases, three air ducts, one on the floor with the others tiered directly above it at intervals of about 8 feet are necessary, he says.

The ducts are fed forced air at one end by means of a vertical chamber in which the pressure is built up 1/2 to 3/4 inch water gage

The air chamber of the barn hay drying system at the station is built of plywood, 4 by 6 feet on the floor and 16 feet high. Such a duct need not reach to the top of the hay in the mow but must have an open side next to the hay to allow the ducts to settle as drying is accomplished.

A door is necessary in the air chamber so that the operator may enter and close the open side down to the floor duct when drying the first 8 or 10 feet of hay. As the hay is built up and more ducts are added, he is enabled to open the air chamber so that forced air will flow into them. If the hay in the bottom of the mow is dry, the duct at the floor may be closed, thus raising the air flow in the others.

For convenience in handling the ducts may be made of expanded steel rolled into tubes 3 feet in diameter, suitably braced. Branch ducts to the corner of the mow provide air circulation to these

troubled spots, Kjelgaard reports. Hay moisture contents at time of loading into the drier during the last four years have averaged around 40 per cent and electrical power used in drying has been 50 kw-hr per ton. A complete report of construction and use of the drier will be found in Progress Report No. 194 obtainable on request from the station or from county agents' offices.

VOICE OF EXPERIENCE

Young Harry "Dad, what's the difference between a gun and a machine gun?"

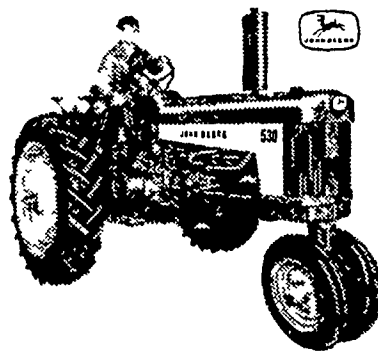
Dad "There is a big difference. It is just as if I spoke, and then your mother spoke."

BOTH SUSCEPTIBLE

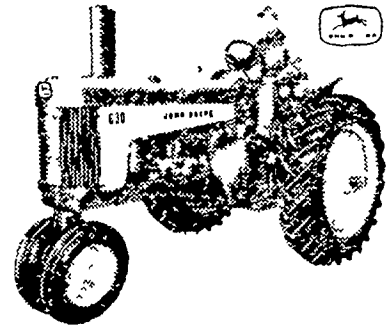
The hair as well as the hair can often be trained properly through the use of a brush.

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